ATLONA
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User Manual

DVI to VGA or Component Scaler with DVI loop-out
AT-PC530

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USA ★★★★★ SINCE 2003

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INTRODUCTION

Atlona Technologies new AT-PC530 is an innovative Scaler designed to convert DVI (digital) signal into variety of HDTV or Computer resolutions through Component or VGA outputs. This unique scaler/converter handles input and output signal at resolutions up to 1920x1200 or 1080p. The PC530 is featured with an On Screen Display selection to enhance optimal video performances. Along with being HDCP compliant, the AT-PC530 support DVI resolution from VGA (640x480) up to WUXGA (1920x1200) and scale it to Component or VGA to resolutions up to 1080p or 1920x1200.

FEATURES

- The AT-PC530 is able to accept DVI resolution from 640x480 to 1920x1200 and scaler them up or down to either component video or vga at resolutions up to 1920x1200 or 1080p.
- The output resolution can be selected via IR Remote control or though On Screen Display
- The On Screen Display allows user to adjust brightness, contrast, color, RGB level and H-V position.
- PC530 features a Noise Reduction and Overscan/ Underscan adjustments.
  Note: The DVI-D input is HDCP compliant which means if input is HDCP encrypted then DVI loop-out will also be HDCP encrypted. In this case the PC/component output will be turned off.

PACKAGE CONTENTS

- Atlona DVI (Digital) to VGA or Component Scaler
- IR Remote control
- 5V DC power adaptor (universal)
- Operation Manual

APPLICATIONS

- DVI signal to be displayed on HDTV

SPECIFICATIONS

Frequency Bandwidth	165MHz
Input Port	1 x DVI (Digital Only)
Output Port	1 x Component, 1 x VGA (15pin), 1 x DVI loop-out
Input Resolution	PC: VGA 640x480@60/72/75/85, SVGA 800x600@56/60/72/75/85, XGA 1024x768@60/72/75/85, SXGA 1280x1024@60/75/85, UXGA 1600x1200@60, WXGA 1280x800@60, WSXGA 1680x1050@60, WUXGA 1920x1200@60
Output Resolution	SD: 480i/480p/576i/576p HD: 720p/1080i/1080p@50,60 PC: VGA 640x480@60, SVGA 800x600@60, XGA 1024x768@60, SXGA 1280x1024@60, UXGA 1600x1200@60, WXGA 1280x800@60, WSXGA 1680x1050@60, WUXGA 1920x1200@60
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certifi ed)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	180(W) x 132(D) x 25(H)
Weight (g)	480
Chassis Material	Aluminum
Silkscreen Color	Black
Operating Temperature	0^0C ~ 40^0C / 32^0F ~ 104^0F
Storage Temperature	-20^0C ~ 60^0C / -4^0F ~ 140^0F
Relative Humidity	20~90% RH (non-condensing)

PANEL DESCRIPTION

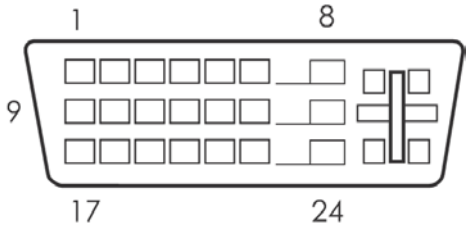
1. Front Panel

1. DVI BYPASS: The DVI Bypass allows users to connect a local display. The resolution on the bypass output would be the same as incoming resolution.
2. IR receiver: IR receiver picks up IR signal from the included remote control
3. PC & HD LED Indicator: These LEDs shows the output selection timing format. Only one Red LED will illuminate according to the setting.
4. Menu & +/- buttons: Press menu button to show On Screen Display selection on the display and press + or – buttons to move to your desire setting.
5. Power button & LED Indicator: Press this button to switch on the desired device or set it to standby mode. The LED will illuminate in green when the power is on and red when power is off.

2. Rear Panel

1. DC 5V: Plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.
2. OUTPUT Cr/Pr, Cb/Pb & Y/HD: Connect a component video display to this output
3. OUTPUT PC: Connect a VGA cable to a monitor
4. INPUT DVI: Connect with DVI cable from your source

DVI-D CONNECTOR PIN ASSIGNMENT



DVI-D Receptacle Connector

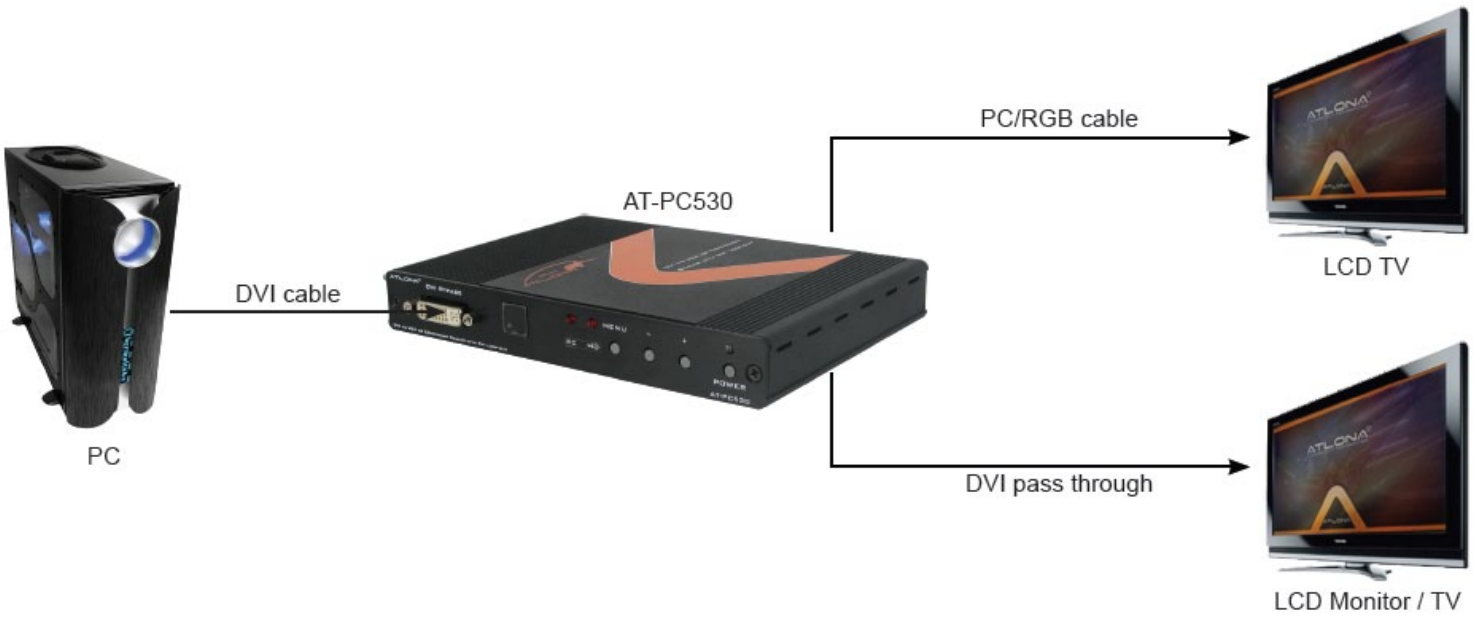
Digital-Only Connector Pin Assignments					
Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S Data2-	9	T.M.D.S Data1-	17	T.M.D.S Data0-
2	T.M.D.S Data2+	10	T.M.D.S Data1+	18	T.M.D.S Data0+
3	T.M.D.S. Data2/4 Shield	11	T.M.D.S. Data1/3 Shield	19	T.M.D.S. Data0/5 Shield
4	N/A	12	N/A	20	N/A
5	N/A	13	N/A	21	N/A
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

OSD OPERATION

1 st Tier Option	2 nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Contrast Level
FINETUNE	- HUE - SATURATION - SHARPNESS - EXIT	0 ~ 100 of Hue Level 0 ~ 100 of Saturation Level 0 ~ 100 of Sharpness Level Back to 1st Tier
COLOR	- RED - GREEN - BLUE - EXIT	0 ~ 100 of Red Color Level 0 ~ 100 of Green Color Level 0 ~ 100 of Blue Color Level Back to 1st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN /LETTERBOX / PAN-SCAN
OUTPUT	-	NATIVE / VGA / SVGA / XGA / SXGA /UXGA / 480i / 480p/ 720p@60Hz /1080i@60Hz / 1080p@60Hz / 576i /576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA /WUXGA
AUDIO	-	HDMI / EAR PHONE / OPTICAL

1 st Tier Option	2 nd Tier Option	Adjustment
OSD	- HPOSITION - VPOSITION - TIMER - BACKGROUND - EXIT	0 ~ 100 of OSD Horizontal Position 0 ~ 100 of OSD Vertical Position 0 ~ 100 of OSD Existing Time (sec.) 0 ~ 100 of OSD Transparent Level Back to 1st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close OSD Menu

CONNECTION DIAGRAM



SUPPORT RESOLUTION

	DVI-D INPUT	VGA Output	Component Output
	PC/HD		SD/HD
480I/576I (NTSC/PAL)			v
480P/576P			v
720P@(50/60)			v
1080I@(25/30)			v
1080P@(50/60)			v
VGA@(60/72/75/85)	v	v	
SVGA@(56/60/72/75/85)	v	v	
XGA@(60/70/75/85)	v	v	
SXGA@(60/75/85)	v	v	
UXGA@60	v	v	
WXGA@60(1280x800)	v	v	
WSXGA@60(1680x1050)	v	v	
WUXGA@60(1920x1200)	v	v	

SAFETY INFORMATION

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture

Do not modify the wall plug. Doing so will void the warranty and safety features.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols.
Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-PC530. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

WARRANTY

Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-PC530) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

ATLONA PRODUCT REGISTRATION

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: http://www.atlona.com/registration